



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

**647.3912**  
**Job Sheet 203838**



Part No: 647.3912

Job Qty: 12 pcs

Part Name: Breakaway Tip Wirestrike for Wire Strike



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 11/28/19

Job Tracking No:

Due Date: 1/12/20

Created By: Jennifer Renwick

Type: Stock

Description:

Note: DWG REV C2 SHEETS 1, 4, 7 IPP REV.A NEW ISSUE JFS 14/05/29 VERIFIED BY:DD

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation         | Qty    | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |  | Lead Time           | Sign-off             |
|-------|-------------------|--------|------------|----------|-----------|---------|-----------------------|--|---------------------|----------------------|
|       |                   |        |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier |  |                     |                      |
| 100   | Bandsaw - 1       | 12 pcs |            | 1/12/20  | 0.00      | 0.80    | Bandsaw - 1           |  | 52<br>39<br>2<br>89 | 19/12/23<br>19/12/23 |
| 110   | HAAS 4 Axis - B4B | 12 pcs |            | 1/12/20  | 1.00      | 14.14   | HAAS - 1 - B4B        |  |                     |                      |
|       |                   |        |            |          |           |         | HAAS - 2 - B4B        |  |                     |                      |
|       |                   |        |            |          |           |         | HAAS - 3 - B4B        |  |                     |                      |
|       |                   |        |            |          |           |         | HAAS - 4 - B4B        |  |                     |                      |
| 120   | QC 2              | 12 pcs |            | 1/12/20  | 0.00      | 0.00    | QC 2 - 1              |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 12             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 14             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 17             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 19             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 2              |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 20             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 22             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 23             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 25             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 32             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 33             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 35             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 39             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 4              |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 40             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 44             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 45             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 48             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 49             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 50             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 51             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 52             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 57             |  |                     |                      |
|       |                   |        |            |          |           |         | QC 2 - 62             |  |                     |                      |



Dart Aerospace Ltd.  
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CANADA  
TEL.: 1 613 632-5200  
Email: sales@dartaero.com  
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Container No: S243376



Part: 647.3912

Job No: 203838

Serial No/Batch: S243376

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Date: 12/23/19

Plex 11/28/19 8:31 AM Dart.Renwick.Jennifer

|     |                               |           |         |           |                        |                 |
|-----|-------------------------------|-----------|---------|-----------|------------------------|-----------------|
|     |                               |           |         |           | QC 2 - 63              |                 |
|     |                               |           |         |           | QC 2 - 8               |                 |
|     |                               |           |         |           | QC 2 - 66              |                 |
|     |                               |           |         |           | QC 2 - 64              |                 |
|     |                               |           |         |           | QC 2 - 65              |                 |
|     |                               |           |         |           | QC 2 - 5               |                 |
|     |                               |           |         |           | QC 2 - 71              |                 |
|     |                               |           |         |           | QC 2 - 73              |                 |
|     |                               |           |         |           | QC 2 - 69              |                 |
| 130 | QC 8                          | 12<br>pcs | 1/12/20 | 0.00 0.00 | QC 8 - 12              |                 |
|     |                               |           |         |           | QC 8 - 14              | mk 12/12/24     |
|     |                               |           |         |           | QC 8 - 17              |                 |
|     |                               |           |         |           | QC 8 - 20              |                 |
|     |                               |           |         |           | QC 8 - 25              |                 |
|     |                               |           |         |           | QC 8 - 3               |                 |
|     |                               |           |         |           | QC 8 - 32              |                 |
|     |                               |           |         |           | QC 8 - 33              |                 |
|     |                               |           |         |           | QC 8 - 35              |                 |
|     |                               |           |         |           | QC 8 - 39              |                 |
|     |                               |           |         |           | QC 8 - 4               |                 |
|     |                               |           |         |           | QC 8 - 44              |                 |
|     |                               |           |         |           | QC 8 - 45              |                 |
|     |                               |           |         |           | QC 8 - 49              |                 |
|     |                               |           |         |           | QC 8 - 58              |                 |
|     |                               |           |         |           | QC 8 - 8               |                 |
|     |                               |           |         |           | QC 8 - 9               |                 |
|     |                               |           |         |           | QC 8 - 68              |                 |
|     |                               |           |         |           | QC 8 - 67              |                 |
|     |                               |           |         |           | QC 8 - 1 (A)           |                 |
|     |                               |           |         |           | QC 8 - 47              |                 |
|     |                               |           |         |           | QC 8 - 40              |                 |
|     |                               |           |         |           | QC 8 - 52              |                 |
|     |                               |           |         |           | QC 8 - 23              |                 |
|     |                               |           |         |           | QC 8 - 57              |                 |
|     |                               |           |         |           | QC 8 - 76              |                 |
|     |                               |           |         |           | QC 8 - 61              |                 |
| 140 | Outsource - 4 - Anodize       | 12<br>pcs | 1/12/20 |           | ATG001-VC              | 10              |
|     |                               |           |         |           |                        | 181 2020-01-06  |
| 150 | Packaging 2-1 - Receive - B4B | 12<br>pcs | 1/12/20 | 0.00 0.00 | Packaging 2 - 1 - B4B  |                 |
|     |                               |           |         |           | Packaging 2 - 2 - B4B  |                 |
|     |                               |           |         |           | Packaging 2 - 3 - B4B  |                 |
|     |                               |           |         |           | Packaging 2 - 5 - B4B  | 181 JAN 15 2020 |
|     |                               |           |         |           | Packaging 2 - 4 - B4B  |                 |
|     |                               |           |         |           | Packaging 2 - 6 - B4B  |                 |
|     |                               |           |         |           | Packaging 2 - 7 - B4B  |                 |
|     |                               |           |         |           | Packaging 2 - 8 - B4B  |                 |
|     |                               |           |         |           | Packaging 2 - 9 - B4B  |                 |
|     |                               |           |         |           | Packaging 2 - 10 - B4B |                 |
|     |                               |           |         |           | Packaging 2 - 11 - B4B |                 |
|     |                               |           |         |           | Packaging 2 - 12 - B4B |                 |
|     |                               |           |         |           | Packaging 2 - 13 - B4B |                 |
|     |                               |           |         |           | Packaging 2 - 14 - B4B |                 |
|     |                               |           |         |           | Packaging 2 - 15 - B4B |                 |
|     |                               |           |         |           | Packaging 2 - 16 -     |                 |



|                                 |        |         |      |      |                                             |                    |
|---------------------------------|--------|---------|------|------|---------------------------------------------|--------------------|
|                                 |        |         |      |      | B4B                                         |                    |
|                                 |        |         |      |      | Packaging 2 - 17 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 18 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 19 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 20 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 21 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 22 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 23 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 24 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 25 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 26 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 27 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 28 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 29 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 30 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 31 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 32 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 33 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 34 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 35 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 2 - 36 - B4B                      |                    |
| 155 QC 6                        | 12 pcs | 1/12/20 | 0.00 | 0.00 | QC 6 - 9                                    | DAS                |
|                                 |        |         |      |      | QC 6 - 68                                   | JAN 22 2020 68     |
|                                 |        |         |      |      | QC 6 - 61                                   | 9-89               |
|                                 |        |         |      |      | QC 6 - 40                                   |                    |
|                                 |        |         |      |      | QC 6 - 81                                   |                    |
| 180 Packaging 3-1 - Stock - B4B | 12 pcs | 1/12/20 | 0.00 | 0.00 | Packaging 3 - 1 - B4B                       |                    |
|                                 |        |         |      |      | Packaging 3 - 2 - B4B                       |                    |
|                                 |        |         |      |      | Packaging 3 - 3 - B4B                       |                    |
|                                 |        |         |      |      | Packaging 3 - 4 - B4B                       | DAS 74 JAN 23 2020 |
|                                 |        |         |      |      | Packaging 3 - 5 - B4B                       | 9-89               |
|                                 |        |         |      |      | Packaging 3 - 6 - B4B                       |                    |
|                                 |        |         |      |      | Packaging 3 - 7 - B4B                       |                    |
|                                 |        |         |      |      | Packaging 3 - 8 - B4B                       |                    |
|                                 |        |         |      |      | Packaging 3 - 9 - B4B                       |                    |
|                                 |        |         |      |      | Packaging 3 - 10 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 3 - 11 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 3 - 12 - B4B                      |                    |
|                                 |        |         |      |      | Packaging 3 - 13 - B4B                      |                    |
|                                 |        |         |      |      | Plex 11/28/19 8:31 AM Dart.Renwick.Jennifer |                    |

Part Op **100** - (Bandsaw) Cut Blank at 20.000" \*\*\* ONE BLANK MAKES TWO PARTS\*\*\*  
 Descriptions: **110** - (HAAS CNC Vertical Machine) 1-Machine per folio FB309 DWG REV: C FOLIO REV: AA 2-  
 deburr and break all sharp edges  
**120** - (QC2- Inspect parts off machine FAI/FAIB)  
**130** - (QC8- Inspect parts - second check)  
**140** - Issue P/O to ATG : 45491 1- Black Anodize as per Dwg 647.3900 2- PRIME AS PER DWG, SEE NOTE #9  
 Certification of Conformity is required  
**150** - (Receive & Inspect for Damage & Mat'l Certs)  
**155** - (QC6- All purchased or subcontracted products)  
**180** - \*\*\*IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV\*\*\*  
**190** - (QC21- Final Inspection - Work Order Release)

| Part / Item         | Component Name                             | Quantity             | Operation       | Container |
|---------------------|--------------------------------------------|----------------------|-----------------|-----------|
| M7075T6S0.375X6.000 | 7075-T6S Sheet .375" Thick Plate X 6" Wide | 10.0080 ft (.834 ea) | 100-Bandsaw - 1 | 5449793   |



| Job Allocations     |                     |                                |                  |           |                  |
|---------------------|---------------------|--------------------------------|------------------|-----------|------------------|
| Operation           | Component Part      | Required                       | Inventory        | Allocated |                  |
| 100-Bandsaw - 1     | M7075T6S0.375X6.000 | 10                             | 28               | 0         |                  |
| Part Specifications |                     |                                |                  |           |                  |
| Spec No             | Description         | Target/Tolerance               | Limits           | Type      | Special Comments |
| 1                   | Lower Deflector     | 29.900degrees ± 0.500          | 30.400<br>29.400 | 29.9      | angle            |
| 2                   | Lower Deflector     | 0.753inches ± 0.005            | 0.758<br>0.748   | 0.754     |                  |
| 3                   | Lower Deflector     | 0.130inches ± 0.005            | 0.135<br>0.125   | 0.13      |                  |
| 4                   | Lower Deflector     | 45.000degrees ± 0.500          | 45.500<br>44.500 | 45°       | angle            |
| 5                   | Lower Deflector     | 0.380inches ± 0.005            | 0.385<br>0.375   | 0.375     |                  |
| 6                   | Lower Deflector     | 0.753inches ± 0.005            | 0.758<br>0.748   | 0.753     |                  |
| 7                   | Lower Deflector     | 0.340inches + 0.000<br>- 0.002 | 0.340<br>0.338   | 0.339     |                  |
| 8                   | Lower Deflector     | 0.100inches ± 0.005            | 0.105<br>0.095   | 0.100     |                  |
| 9                   | Lower Deflector     | 45.000degrees ± 0.500          | 45.500<br>44.500 | 45°       | angle            |
| 10                  | Lower Deflector     | 0.350inches + 0.000<br>- 0.002 | 0.350<br>0.348   | 0.349     |                  |
| 11                  | Lower Deflector     | 0.271inches ± 0.005            | 0.276<br>0.266   | 0.271     |                  |
| 12                  | Lower Deflector     | 0.705inches ± 0.005            | 0.710<br>0.700   | 0.705     |                  |
| 13                  | Lower Deflector     | 1.533inches ± 0.005            | 1.538<br>1.528   | 1.533     |                  |
| 14                  | Lower Deflector     | 0.749inches ± 0.005            | 0.754<br>0.744   | 0.749     |                  |
| 15                  | Lower Deflector     | 0.194inches + 0.005<br>- 0.001 | 0.199<br>0.193   | 0.194     | diameter         |
| 16                  | Lower Deflector     | 0.065inches ± 0.005            | 0.070<br>0.060   | 0.065     |                  |
| 17                  | Lower Deflector     | 0.133inches ± 0.005            | 0.138<br>0.128   | 0.133     |                  |
| 18                  | Lower Deflector     | 7.422inches ± 0.005            | 7.427<br>7.417   | 7.422     |                  |
| 19                  | Lower Deflector     | 0.177inches + 0.005<br>- 0.001 | 0.182<br>0.176   | 0.177     | diameter         |
| 20                  | Lower Deflector     | 0.915inches ± 0.005            | 0.920<br>0.910   | 0.915     |                  |
| 21                  | Lower Deflector     | 2.110inches ± 0.002            | 2.112<br>2.108   | 2.109     |                  |
| 22                  | Lower Deflector     | 4.220inches ± 0.002            | 4.222<br>4.218   | 4.220     |                  |
| 23                  | Lower Deflector     | 0.320inches ± 0.005            | 0.325<br>0.315   | 0.320     |                  |
| 24                  | Lower Deflector     | 33.400degrees ± 0.500          | 33.900<br>32.900 | 33.4°     | angle            |
| 25                  | Lower Deflector     | 43.700degrees ± 0.500          | 44.200<br>43.200 | 43.7      | angle            |

Plex 11/28/19 8:31 AM Dart.Renwick.Jennifer

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                        |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div> |  |                        |  |
| Date : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sequence #: _____                                                                                                                 | QTY Affected : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | QC / QA Coordinator    |  |
| <b>Root Cause</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Operator <input type="checkbox"/><br/>           Manufacturing Process <input type="checkbox"/><br/>           Equip/Tooling <input type="checkbox"/><br/>           Handling/Preservation <input type="checkbox"/><br/>           Material <input type="checkbox"/><br/>           Product Improvement <input type="checkbox"/><br/>           Process Improvement <input type="checkbox"/><br/>           Human Factors <input type="checkbox"/> </div> <div> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |                                                                                                                                   | Other/Details: _____<br><br>_____<br><br>_____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                        |  |





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER

## POHB045491



**Supplier:** ATG001-VC  
A.T.G. Industries Inc  
760 INDUSTRIELLE STREET  
ROCKLAND  
ON  
K4K 1T2 Canada  
Phone: 613-446-4544  
Fax: 613-446-4556

**Attention:** Lalonde, Marc-Andre

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**PO No:** POHB045491

**PO Date:** 1/6/20

**Due Date:** 1/17/20

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Guerin, Kimberley  
Phone: 613-632-5200 Ext: 298  
kguerin@dartaero.com

**Via:** Ground

**Pymt Terms:** Net 60

**Freight Terms:**

**Special Comments:**

E-MAILED  
2020-01-13

### Items

| Line Item | Job    | Part        | Drawing          | Description                                                                                                                                                                                          | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
|-----------|--------|-------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|----------|----------------|-------------------|---------|------------------|----------------|
| 1         | 203268 | 646.2910    | 646.2900 Rev N/C | Deflector<br>: Various STC's<br>(Outsource process-<br>Anodize per<br>QSI017<br>4.1.10.1)<br>Issue P/O to<br>ATG :<br><br>Hard Anodize,<br>Color Black /<br>Prime As per<br>Dwg 646.2900<br>Rev. N/C | Firmed | -       | 1/17/20  | 10 pcs         | 0 pcs             | 10 pcs  | \$49.34/pcs      | \$493.40       |
| 2         | 204188 | RBD29905-15 | RBD29905 Rev G   | Center Plate<br>(Outsource process-<br>Anodize per<br>QSI017<br>4.1.10.1)<br>-Issue P/O<br><br>-ANODIZE<br>COLOR RED,<br>PER IAW MIL-<br>A-8625 TYPE-2<br>CLASS-2,<br>Water sealant                  | Firmed | -       | 1/17/20  | 23 pcs         | 0 pcs             | 23 pcs  | \$5.63/pcs       | \$129.49       |

X23

JAN 14 2020



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# PURCHASE ORDER

## POHB045491



## Items

| Line Item   | Job    | Part                | Drawing                 | Description                                                                                                                                                                                                                                                                                                             | Status        | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
|-------------|--------|---------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------|----------|----------------|-------------------|---------|------------------|----------------|
| 3           | 203825 | 646.3313            | 646.3300 Rev A          | Upper Guide<br>: Various STC's<br>Issue P/O to<br>ATG :<br><br>Hard Anodize<br>Color Black and<br>Prime as per<br>DWG 646.3300                                                                                                                                                                                          | Firmed<br>X18 | -       | 1/17/20  | 18 pcs         | 0 pcs             | 18 pcs  | \$14.44/pcs      | \$259.92       |
| JAN 15 2020 |        |                     |                         |                                                                                                                                                                                                                                                                                                                         |               |         |          |                |                   |         |                  |                |
| 4           | 204055 | D4980-1             | D4980 REV.C             | Doubler<br>: Various STC's<br>Issue P/O to<br>ATG :<br><br>AS PER DWG<br>D4980<br><br>1- HARD<br>ANODIZE IAW<br>MIL-A-8625<br>TYPE III,<br>CLASS 2,<br>COLOR<br>BLACK,<br><br>2- PRIME IAW<br>MIL-P-23377J<br>TYPE I CLASS<br>N; 1-2 MIL<br>MAX, AS PER<br>QSI 005<br><br>Certification of<br>Conformity is<br>required | Firmed<br>X10 | -       | 1/17/20  | 10 pcs         | 0 pcs             | 10 pcs  | \$7.59/pcs       | \$75.90        |
| JAN 15 2020 |        |                     |                         |                                                                                                                                                                                                                                                                                                                         |               |         |          |                |                   |         |                  |                |
| 5           | 200290 | RBE350A93-3302-02-5 | RBE350A93-3302-02 Rev M | Extension<br>Handle<br>(Outsource<br>process-<br>Anodize per<br>QSI017<br>4.1.10.1)<br>-Issue P/O;<br><br>-ANODIZE<br>COLOR RED,<br>PER IAW MIL-<br>A-8625 TYPE-2<br>CLASS-2,<br>Water sealant<br>-Material type;<br>6061T6<br>-Certificate of<br>Conformity is<br>required                                             | Firmed<br>X12 | -       | 1/17/20  | 12 pcs         | 0 pcs             | 12 pcs  | \$5.63/pcs       | \$67.56        |
| JAN 14 2020 |        |                     |                         |                                                                                                                                                                                                                                                                                                                         |               |         |          |                |                   |         |                  |                |





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER

## POHB045491



### Items

| Line Item | Job    | Part     | Drawing          | Description                                                                                                                                                                                                            | Status        | Account | Due Date    | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
|-----------|--------|----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------|-------------|----------------|-------------------|---------|------------------|----------------|
| 6         | 203838 | 647.3912 | 647.3900 Rev C2  | Breakaway Tip Wirestrike for Wire Strike : Various STC's Issue P/O to ATG :<br><br>1- Black Anodize as per Dwg 647.3900<br>2- PRIME AS PER DWG, SEE NOTE #9<br>Certification of Conformity is required                 | Firmed<br>X12 | -       | 1/17/20     | 12 pcs         | 0 pcs             | 12 pcs  | \$12.79/pcs      | \$153.48       |
|           |        |          |                  |                                                                                                                                                                                                                        |               |         | JAN 15 2020 |                |                   |         |                  |                |
| 7         | 203839 | 647.5710 | 647.5700 Rev N/C | GPS Mount : Various STC's Hard Anodize Black IAW MIL-A-8625 Type III Class 2 Cardinal 4860-50 pre-treatment primer; Prime IAW MIL-P-23377 J Type I Class N; 1-2 mil MAX Outsource process- Anodize per QSI017 4.1.10.1 | Firmed<br>X8  | -       | 1/17/20     | 8 pcs          | 0 pcs             | 8 pcs   | \$11.39/pcs      | \$91.12        |
|           |        |          |                  |                                                                                                                                                                                                                        |               |         | JAN 15 2020 |                |                   |         |                  |                |

Grand Total: \$1,270.87

### Order Notes

Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)

A022 Apical Processing  
A024 process certifications  
A026 certification of material conformance

A041 quality management system  
A042 dart notification by supplier  
A043 retension of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 1/13/20 4:21 PM Dart.Guerin.Kimberley



A.T.G. Industries Inc.  
760 Industrielle Street  
Rockland, ON K4K 1T2  
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

### Pack List

Number: 919392

Date: 15-Jan-20

#### To

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury, ON K6A 1K7

#### Ship To

Kimberley Guerin  
Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

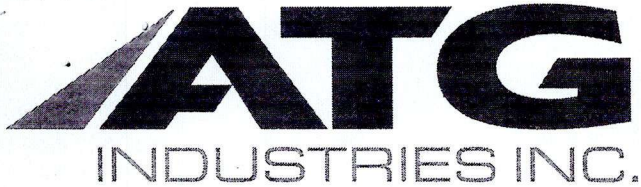
Ph: 613 632-9577

Fax: 613 632-1053

| Terms                                                                                                                                           |                                                                                                                                                                                                                                                                                        | Ship Via                                            |                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------|
|                                                                                                                                                 |                                                                                                                                                                                                                                                                                        | ATG Delivery                                        |                                                                                                 |
| Quantity                                                                                                                                        | Description                                                                                                                                                                                                                                                                            |                                                     |                                                                                                 |
| Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us. |                                                                                                                                                                                                                                                                                        |                                                     |                                                                                                 |
| 18<br>ea                                                                                                                                        | Part: 646.3313<br>Upper Guide<br>Hard Black Anodize per MIL-A-8625F, Type III, Class2, .0005-.0045" (.5 - 4.5mils)<br>Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing.<br><br>Batch/Lot# S236137<br>Job: 26715<br>PO: POHB045491 | Rev: A<br><br>Expiry Date: 05/29/2021<br>Line: 3    | JAN 15 2020                                                                                     |
| 10<br>ea                                                                                                                                        | Part: D4980-1<br>Doubler<br>Hard Black Anodize per MIL-A-8625F, Type III, Class2, .0005-.0045" (.5 - 4.5mils)<br>Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (.1 - .2 mils) per drawing.<br><br>Batch/Lot#: S236137<br>Job: 26716<br>PO: POHB045491     | Rev: C<br><br>Expiry Date: 05/29/2021<br>Line: 4    | JAN 15 2020                                                                                     |
| 12<br>ea                                                                                                                                        | Part: 647.3912<br>Breakaway Tip<br>Hard Black Anodize per MIL-A-8625F, Type III, Class2, .0005-.0045" (.5-4.5mils)<br>Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied) (1-2 mils)<br><br>Batch/Lot#: S236137<br>Job: 26718<br>PO: POHB045491                               | Rev: C2 ✓<br><br>Expiry Date: 05/29/2021<br>Line: 6 | JAN 15 2020<br><br>DAS 68 9-89<br><br><b>RECEIVED</b><br>JAN 15 2020<br><br>DART AEROSPACE LTD. |

Made in Canada.





A.T.G. Industries Inc.  
760 Industrielle Street  
Rockland, ON K4K 1T2  
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

### Pack List

Number: 919392

Date: 15-Jan-20

#### To

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury, ON K6A 1K7

#### Ship To

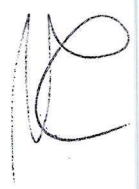
Kimberley Guerin  
Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

| Terms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                      | Ship Via                                      |                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                      | ATG Delivery                                  |                                                                                                           |
| Quantity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Description                                                                                                                                                                                                                                          |                                               |                                                                                                           |
| 8<br>ea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Part: 647.5710<br>GPS Mount<br>Hard Black Anodize per MIL-A-8625, Type III, Class 2, .0005-.0045" (.5 - 4.5mils)<br>Prime per MIL-P-23377J, Type I, Class N (Customer Supplied), .1-2 Mil max<br>Batch/Lot#: S236137<br>Job: 26719<br>PO: POHB045491 | Rev: NC<br>Expiry Date: 05/29/2021<br>Line: 7 | <br><b>JAN 15 2020</b> |
| <p><b>CERTIFICATE OF CONFORMANCE</b><br/>A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements.</p> <p>Date: <u>JAN 15 2020</u></p> <p>Certified Signature: _____</p> <p>Receiver Signature: _____</p> <p>A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited.</p> <p>Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.</p> |                                                                                                                                                                                                                                                      |                                               |                                                                                                           |
| Made in Canada.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                      |                                               |                                                                                                           |